

ABSTRACT

The present invention generally relates to high density nucleic acid arrays and methods of synthesizing nucleic acid sequences on a solid surface. Specifically, the present invention contemplates the use of stabilized nucleic acid primer sequences immobilized on solid surfaces, and circular nucleic acid sequence templates combined with the use of isothermal rolling circle amplification to thereby increase nucleic acid sequence concentrations in a sample or on an array of nucleic acid sequences.

A **B** **C** **D** **E**

F **G** **H** **I** **J**

K **L** **M** **N** **O**

P **Q** **R** **S** **T**

U **V** **W** **X** **Y**

Z